

The Anchorage Amateur Radio News Bulletin

May, 1993

Anchorage Amateur Radio Club Newsletter
Editor - Harvey Rookus, NL7DK

Vol. 22, No. 5

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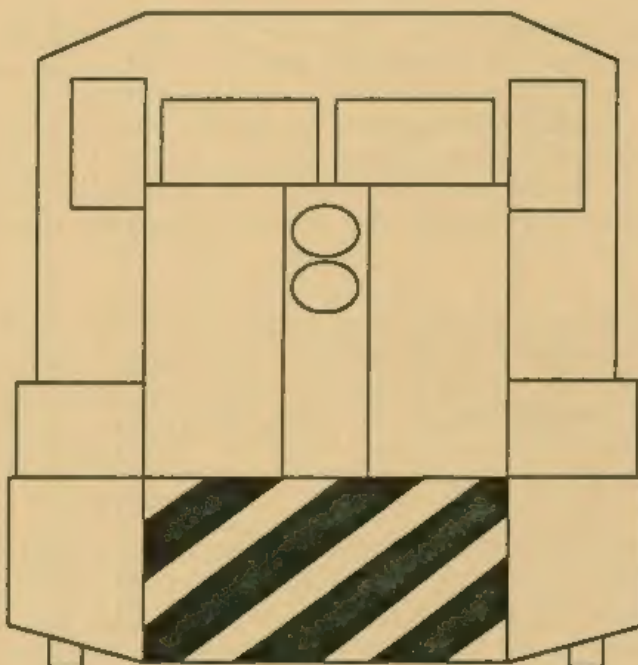
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Club Activities &
Information

**NEXT MEETING IS
FRIDAY MAY 7TH!**



The Alaskan Rail Road is rolling again and the Nominations Committee expects to present a list of the known nominees at the May 7th meeting.

Also at the May 7th meeting, we'll be hearing from a number of club members and officers who have been involved in the club's activities this past year. This will be a chance to find out what goes on with the club after the meetings are over and we crawl home from the eatin's after the meetin's.

The door prizes for May will include an AEA Isopole antenna for 70 centimeters,

we're moving up to a higher band! We'll also be raffling off the computer formerly used by the club's Membership Committee (of one). It's an XT with a 360 kb 5.25" floppy drive. Lance has removed the hard drive for use with the replacement computer; however, we have another 10 mb hard drive to go with the computer. The monitor is a B&W unit and will require an adapter cable to match from the VGA board to a composite input. All in all, it should be an experimenter's dream (nightmare?) and whoever puts the whole package together should be able to use it as a dedicated computer for packet!

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Even Hams Suffer From TVI and RFI

By Richard Mote, AL7MO

Elsewhere in this newsletter you will note that the issue of an intermodulation problem involving KSKA was discussed at the April Board Meeting. As a volunteer board operator for KSKA, I was surprised to hear that KSKA was involved in the interference problem we've been experiencing on the main receiver for the 146.94/34 repeater; however, I shouldn't have been as I recalled earlier discussions about the KSKA signal being part of the problem with the 146.97/37 repeater.

Quite a number of us have, at one time or another, found that our own signals were being 'received' on a neighbor's television set, stereo or VCR as TVI or RFI. We've had to try and explain and educate the neighbor that our transmitters weren't causing the problem, but that the problem was their equipment was 'receiving' our signals when they ought not to be able to do so.

This is what is probably happening with the repeaters on 147.94 and 147.97 and will happen to any repeaters in this area on the Anchorage hillside with inputs between 146.275 and 146.425. The probable source of the signals that are mixing in the repeaters receivers are the KSKA FM signal on 91.1 mhz plus/minus 75khz and the KTUU video carrier on 55.25 mhz.

The video carrier is amplitude modulated and creates a white noise (at best) through a good FM detector circuit. The FM station's signal is very, VERY broadbanded as far as the repeaters receivers are concerned but can still be heard at times as distorted audio.

KTUU's video carrier is operating at 100,000 watts effective radiated power from an antenna height of approximately 800 feet above sealevel at Goose Creek on Point McKenzie. KSKA is operating at 36,000 watts effective radiated power from an antenna height of just 90 feet above ground level at APU. These power levels are more than sufficient to be 'received' and 'mixed' by the two repeaters' hillside receivers.

If KSKA and KTUU are the source of the intermodulating signals, then what is required is a dual frequency trap set for 55.25 and 91.1 mhz

(Continued on Page 4)

Calendar 1993

MAY

General Meeting 7th
Board Meeting 12th
PARKA Meeting 22th
Cafe Europa & Bakery
601 W. 36th Avenue

JUNE

General Meeting 4th
Club Elections
Board Meeting 9th
New & Old Board Members
Field Day 1993 26th & 27th
PARKA Meeting 26th
at AARC Field Day Site
Motley Picnic (Byers Lake)

JULY

General Meeting 2nd
Board Meeting 7th
PARKA Meeting 24th
Villa Nova Restaurant
5121 Arctic Blvd.

August

General Meeting 6th
Board Meeting 11th
PARKA Meeting 28th
Lil Marvin's Place
1030 Denali 277-6741
Bush Net Picnic

September

General Meeting 3rd
Board Meeting 8th
1993 Flea Market & Hamfest
PARKA Meeting 25th
Peggy's Restaurant
1675 E. 5th Avenue

October

General Meeting 1st
Board Meeting 13th
PARKA Meeting 23rd
Lynne Duncan's Place
10820 Chain Of Rock

Minutes From The Board Meeting

By: NL7DL, Lil Marvin and NL7DK, Harvey Rookus

The Anchorage Amateur Radio Club board meeting was held on Wednesday, April 15th, at Alaska Pacific University's Carr-Gottstein building, room 104. The meeting was opened at 7:10 PM by President Fred Wegmer, KL7HFM. The following board members were present: KL7HFM, KL7YF, NL7DL, AL7BK, AL7BB, NL7NC, AL7MO, AL7NK, WL7IHE, NL7VR and NL7UH. The following club members were also present: NL7DK, KL7IKX and WL7BF.

Acting treasurer Richard, AL7MO, says that we have money in the bank. He requested obtaining Quickbooks for the treasurer and will buy some in town at a reasonable rate. He also recommends the club obtain a laser printer or a dot matrix printer.

Activities Manager AL7MO, (double duty), suggested that the May club meeting be a listing and description of various club activities, such as HF, packet, committees, gaming, newsletter, VEC program, QSL bureau, awards, VHF, etc.

Doug, KL7IKX, will upgrade the UHF controller. He wants new software to limit long distance telephone calls. He reported that the 147.90/30 repeater had been ordered turned off by the trustee due to unknown problems. Since the repeater is still inaccessible, and chances of getting there are currently slim, he will not be able to learn or solve the repeater's problems for possibly another

month.

Fred, KL7HFM, reports that, according to the attorney for the club's ad hoc committee, the details for the club's new non-profit organization have been worked out and are ready to file with the state.

The board decided to hold Field Day at the same site where it has been held for the last two years, by the corner of 36th and MacInnes.

At last word, the Nominations committee is still looking for nominations for Activities Manager. If you have any ideas, please contact Bill Beach, AL7MM, at 345-1667.

Fred, KL7HFM, suggested that the club donate \$20,000 from the gaming funds, to the Alaska Public Radio Network (which has 26 affiliate stations). He assured the board that there would still be enough funds to make our contribution to APU at the appropriate time. The board decided to put the donation of the money to APRN to the general membership for a vote. The board also decided to add the following stipulations to the donation: 1. APRN to list the club's name in the paper, and 2. APRN to exercise their influence over KSKA to correct its transmitter's intermod problem.

NOW HEAR THIS!! The board was informed that both the gaming chairman and the gaming treasurer wish to retire from their respective positions,

and the board needs to replace them. The new appointees must be familiar with the state gaming laws, and how to work them. Any suggestions will be gratefully accepted. Contact Fred Wegmer, KL7HFM, at 274-3464. Or contact any of the other board members.

KL7YF requested to represent KL7AA at the Dayton Hamfest. He also stated that the two young hams, NL7HQ and KL7HD, who are working to establish a UHF/VHF link from Anchorage to Fairbanks, are also working on a presentation to the club regarding their needs and plans for the link.

Fred, KL7HFM, suggested that mention be made to hams that the club strongly disapproves of any amateur engaging in illegal Citizens Band activities.

Bob, NL7UH, described a marine emergency which took place on April 13th on 14.330. He had nothing but praise for the New Zealanders who took part in the rescue and the communications.

The June club meeting will be the elections meeting. Please attend if you don't want the Alaska Rail Road to run you over. AL7MO will strive to have a certificate for a new Kenwood TS50 mobile HF rig as a possible door prize for the June raffle. The certificate would be redeemable for the real radio at a later date.

The meeting was adjourned at 8:25 PM.

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Minutes From The April Meeting

By: NL7DL, Lil Marvin

Meeting was brought to order by our President Fred Wegmer, KL7HFM. After the introductions were completed, Fred held everyone's attention as he said that he's selling out and going to become a "homeless bum" for a few years. Roger Hansen, KL7HFQ, gave Fred a "going away gift"--an FCC Form 610 just so he can keep his address current. Good Luck, Fred. We will miss you!

John Antonuk, AL7ID, will be moving to Fairbanks to work at KFAR television (and to join the 'other' AARC).

Anchorage and Eagle River Walk For Hope will be held on Saturday, May 1st. Bill Reiter, KL7ITI, may still need some help. Do not hesitate to volunteer.

Harley and Arlene Steward, KL7IZZ and KL7HO, will need all spare hands to help with cleaning up Potter Marsh on Saturday the 8th of May. Work begins at 8:00 AM sharp. If you have a pair of hip boots and some heavy gloves, you are welcome to come on down.

Nominations will be out at the May meeting. If you have any ideas for nominations please contact Bill Beach, AL7MM.

Anchorage now has three VE testing sessions a month. The Saturday VE testing session will be on the first Saturday of ODD numbered months and on the second Saturday of EVEN numbered months at 2:00 PM in room 202 of the Carr-Gottstein Building located on the APU campus.

After the break, we had an outstanding video to watch called "THE LAST VOICE FROM KUWAIT". That man risked his own life and the lives of his family members in order to inform the outside world about his country's worsening condition. "Freedom" means everything! It is a shame that many people take it for granted.

Raffle prizes were awarded. (The tickets will be mixed better next time). The eatin' after the meetin' was held at the Frontier Restaurant on Tudor Road.

Respectfully submitted, in Lilly's stead, Susan Woods.

(Continued From Page 3)

Board Minutes

Having been deprived of chocolate for over an hour, Lil had to be carried home where she was revived with a dose of M&M's from "Emmy", her M&M's dispenser.

Respectfully Submitted,

Lil Marvin, NL7DL

PS Please don't forget to give serious consideration to the replacements for gaming chairman and gaming treasurer. These are very important

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Real Life Sketches

Their daughter is an Editorial writer. Bill's wife passed away in 1990 after fighting a stroke for a number of years. Bill remarried in 1991.

When asked if he still does any traveling he says he can't as his wife is working doing customs work for Federal Express. They are planning a Family Reunion in June of this year. Bill joined the Anchorage Amateur Radio Club in 1958 when he moved into Anchorage. Thanks Bill for a very interesting story.

(Continued From Page 2) - TVI

between the antennas and the receivers at both repeaters. If fundamental frequency filters don't remove the problem, then the solution is to move the repeaters to new frequencies; a shift to below 146.875/.275 or to above 147.00 will take the repeaters out of the zone where

the two signals can mix together.

However, making such a move can be expensive. The operators of the 147.97/.37 repeater made the decision to use CTCSS tone access in lieu of paying the cost of changing frequencies. Tone access prevents false keying of the repeater.

BBC World Service Frequencies Audible In Alaska This Spring

Nights 5975 khz
Around The Clock 12095 khz
Afternoons & Evenings 21715 khz

Ask Prime Cable to add BBC to the FM Band in Anchorage!
They can get it for FREE!

REAL LIFE SKETCHES

By Harvey Rookus, NL7DK



Bill Baber, KL7GM, was born in Granite Falls, Minnesota, in 1916. Living on a farm, he attended school there and graduated from high school in 1934. He joined the Civilian Conservation Corps for two years, most of the time being spent in Northern Minnesota. During his time in the CCC he was transferred to Oregon, traveling by trooptrain.

He was dabbling in Amateur radio at this time, and received a scholarship to Oregon Institute of Technology in Portland where he graduated in 1938 with a 2nd Class Telegraph License and a 1st Class Phone License. Upon showing the FCC his new licenses he was given an Advanced Amateur Radio License in 1938.

He worked for a Radio Supply house in Portland until he answered an ad for a Radio Engineer for station KFQD in Anchorage. He came to Alaska in May 1941 via the Alaska Steamship Company, entering at Seward. His wife came up in August of 1941.

He worked for KFQD from May 1941 until July of 1942, when he joined the CAA (now FAA), as a Radio Technician located at the Flight Service Station on Merrill Field. He remained in Anchorage until he was transferred to Cordova in 1944 as Supervisory Electronics Technician. Bill tells of many interesting happening while at Cordova. The one I liked was his being the 'Last Superintendent of

the Copper River & Northwestern Railroad'. It seems the CAA had a 25 ton locomotive and several cars to haul supplies the 13 miles from Cordova to the airport. He had a military crew of 4-5 to run the train and do maintenance.

Bill was transferred to Galena in 1949 as the Station Manager where he remained until 1951. When they were transferred the FAA moved the whole family by plane to their next duty station. In January of 1951 Bill and family were moved to a 'tropical paradise', Northway, again as Station Manager. At that time or shortly after, the temperature hit minus 73. Their vehicles were kept in a warm garage and when they went to a remote site to do some maintenance, they could only stay two hours as the grease would freeze in the bearings and the differential. Bill says that they would drive into Canada to go fishing, paying \$1.50 for a fishing license, and the fishing was good. One of his jobs in Northway was to be the Customs Agent for small planes entering Alaska. Small planes would leave Whitehorse headed to Alaska and would have to stop for fuel at Northway. Bill would ask about various things they might be carrying. He would then seal their storage compartments and they would be checked by Customs either at Anchorage or Fairbanks.

They were moved from Northway to Nome in 1952, again as Station Manager. There were several outlying repeaters that

needed checking from time to time which required some 'not too friendly' flying. Bill told of seeing much debris from the old railroads that used to be in the Nome area. Leaving Nome in 1958 Bill finally came back to the Big City as Station Manager at the Flight Service Station at Merrill Field in Anchorage. At that time Anchorage International Tower and Merrill Tower came under the Merrill Flight Service. When Anchorage International was being transferred to the State, Bill was the Airport Manager for a time.

In 1960 Bill moved into the Regional Office as an Administrative Officer-Assistant to the Division Chief of the Airways Facilities Division. Some of his duties included handling the Budget and Personnel. The Airways Facilities Division was split into the Establishment and the Maintenance Divisions with Bill being in the Maintenance Division until his retirement in 1973.

After retiring Bill bought and wore out a Motor Home doing extensive traveling in the Lower 48 and Canada. Bill was married in Oregon in 1938 and he and his wife raised four children, 3 sons and one daughter. One son has a doctorate in Electronics, and is a college professor. Another son is an Architect, the third son worked for the State of Alaska until his untimely passing in 1992.

(Continued on Page 4)

ARE YOU LOSING YOUR GROUND?

By Chuck Frensley - WL7DZ

Well, it's that time of year again, to take my radio apart and fix the antenna connector which still rotates from time to time causing me to lose ground and subsequently causing me to drop out of repeaters or to not get into them at all.

It's frustrating to have someone say, "The party trying to access the (freq) repeater, you don't have enough power" (or) "are in a bad location/real scratchy/picket fencing, blah-blah-blah!"

This is also embarrassing when you consider that I am connected to an outside antenna which is around 50 feet in the air and unobstructed by its' surroundings.

Well, what can I tell you? Take the thing apart again and 'handle it-handle it'.

The whole purpose of this article is to pass on some valuable information that perhaps a few of you who take the time to read the newsletter might find useful.

Ever notice that a lot of (better) equipment uses braided or flat ground straps instead of round wire?

Why is that I wondered? So, I did my homework (for once) and discovered that, according to professionals and black belt hams, round wire looks like a coil.

What is a coil? Most of us know the answer to that one. (In case you don't, it's an inductor.) Let

me ask what a coil has that is deadly to proper grounding. REACTANCE.

What does REACTANCE do? It opposes the flow of AC. At least at very specific frequencies.

This increase the REACTANCE and we want REACTANCE to be as low as possible regardless of the frequency.

This strapping material or foil is available at a variety of stores such as automotive and industrial hardware in addition to Ham outlets.

Plumbing/hardware and boating suppliers have what is called 'plumbers tape'. This copper ribbon serves as an excellent ground under salt conditions-like on your yacht.

Although I have not called myself, the Ham Radio Outlet at 800-444-4799 has it also will be glad to take your money [Editor's note: give an Alaskan the opportunity to 'take your money' first].

I have a book from the FCC (remember them?) on grounding. It is free for the asking. Just call Kathy or Louise at 243-2153 M-F. They too, will be happy to send you one.

Or, you can write to: FCC, Field Operations Bureau, National Training Center, 1200 Communications Circle, Virginia Beach, VA 23455, Attn: Colleen McNeely, Public Affairs.

Certificate Of Appreciation Presented To AARC At Annual Awards Breakfast

BP Exploration and the Anchorage Association for Volunteer Administration held their 13th annual awards breakfast on April 14th. The AARC was among the many local volunteer organizations honored at the breakfast.

The club received a Certificate of Appreciation for its outstanding volunteer community service during 1993. In previous years the club has also been among those given a donation for superior service.

The Certificate of Appreciation is replicated on the facing page for inclusion in your Amateur Scrapbook.

Remember: 'Round' ground is best only on the barbie.

Chuck Frensley (Standing my ground).

FOR SHRIMP ON THE BARBIE FANS

Aussie Rules Football live action is back on Friday and Saturday evenings our time on Radio Australia's frequency of 21,740 khz in the 13 Meter Band. Highlights of the week's games and scores can be seen on a one-week delayed basis on Prime Cable's channel 27 in Anchorage..

Certificate of Appreciation

presented to

Anchorage Amateur Radio Club, Inc.

for Outstanding Volunteer Community Service

1993

Wesley B. ...

Anchorage Association for
Volunteer Administration



J. R. ...

BP EXPLORATION





Election Time All Aboard The AARC Railroad!

Election time is coming up again, with elections held in June. Below is the slate of offices up for election. If you would like to take a very active part in the leadership of the AARC or know someone who would be willing to be nominated for one of these openings, please call the Nominating Committee Chairman, Bill Beach - AL7MM at 345-1667 (h) or 263-4488 (w).

<u>Office</u>	<u>Currently Held By</u>	<u>Nominees</u>
President	Fred, KL7HFM	_____
Vice President	Joan, AL7NK	_____
Activities Mgr.	Richard, AL7MO	_____
Secretary	Lil, NL7DL	_____
Treasurer	Vacant	_____
3 Year Board	Lance, AL7BK	_____
1 Year Board	John, AL7ID	_____
1 Year Board	Jerry, AL7HS	_____
1 Year Board	Mel, WL7IHE	_____
1 Year Board	John, NL7NC	_____
1 Year Board	Simon, NL7VR	_____
1 Year Board	Bob, NL7UH	_____

[Editor's note: Bill Beach, AL7MM volunteered to be the Chairperson of the Nominating Committee because of his desire to be an active participant in AARC activities. It has been a tradition of the AARC that the Chairperson of the Nominating Committee 'volunteer' themselves for one of the positions each year. However, Bill is also active in the Boy Scout program and has a conflict with most of the AARC Board meetings; he says that he would be unable to meet the commitment of not missing more than three Board meetings during the year.]

Plan On Field Day And Picnic With KL7AA

The Board of Directors for the AARC voted to have the 1993 Field Day picnic and emergency preparedness event at the corner of 36th and MacInnes, courtesy of Harley and Arlene Steward, KL7IZZ and KL7HO, and the City Parks Department.

We will be using the Steward's lot on the north side of 36th and the park on the south. There will be a picnic for those who want to come and watch the action. But OF COURSE you are all INVITED to participate in the on-the-air action.

This year the club will try to add satellite to the stations on the air. We will also be operating at least three other HF stations and possibly one VHF multimode station. Room is available for YOUR SETUP if you want to get in on the action!

Part Three Of A Six Part Investigative Scientific Research Series Into

AURORA DISTURBANCES ON HF PROPAGATION

By B. B. Capers, AL7BB

After much consideration of what I have been able to uncover with this strange thing we call the Aurora Borealis, I am convinced that what we are really having to tolerate is not a natural thing, it is a prehistoric bird that thrives off electromagnetic radiation much the same way that a normal bird thrives off seed and little creatures that crawl around. I think this bird must normally live in the frozen wastelands somewhere above the Arctic Circle, and only appears when it gets hungry. I would not be surprised if the thing actually hibernates much like many members of the animal world, only to be disturbed at unpredictable times.

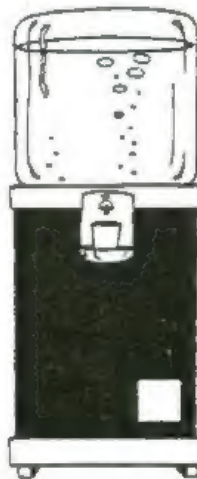
Now that we have determined that such a beast does in fact exist, I find that a proper name should be placed on the creature, so in order to simplify reference to the thing, I have named it the Great Alaskan Signal Sucker, or GASS Bird.

When the GASS Bird swoops down from the North, it literally sucks up all the RF in the area, and stores it in his great rear end, to be consumed as required to sustain his activity. I have also surmised that actually, there is no such thing as a true Aurora, for what we are actually seeing is the great tail feathers with all their brilliant colors glowing as the bird swoops across the sky. This could well explain the dancing of these lights through the sky in a ballet-like pattern that tends to soothe the savage beast, however awakens the ire in Ham operators.

I have also surmised that the bird lives in the vicinity of the North Pole, and remembering that everything is South of there, I believe that the bird is bi-directional, and must fly forward toward the South, and backwards when returning to his resting place. With the size of the thing, he would have a very rough time trying to turn around anyway. I surmise that he tried to turn around, he would have to take up most of the Milky Way, and would then be completely visible. This being against the secretive nature of the bird, he would rather only have a forward and reverse direction.

Now, armed with the information that I have given you, the Ham can be equipped with the knowledge of what to expect once he sees the brilliant display of the GASS Birds' tail feathers, and I would recommend that the Ham who has plans of long duration in the community of communicators, not climb his tower and shake his fist in the snout of the bird, for as there have been on recorded cases of the bird actually harming anyone, I am sure the possibility does exist.

There are also indications that some of the other disturbances we hear on the Ham bands could be a direct result of the GASS Bird, and we of the brotherhood have been blaming some of our neighbors unjustly, but that is another story.



AL7BB Arctic RF
Research Centre

Swap N Shop

Bill, AL7IG has the following for sale. He can be reached at 243-0433.

Kenwood HF Transceivers: TS-930S w/ant tuner \$1,100; and TS-430S w/PS-43 pwr supply, AT-250 ant tuner & MB-430

mobile mount \$1,200. Kenwood VHF/UHF Transceivers: TM-2570A 2 mtr FM \$375; TS-811A 70 cm multimode \$300; TS-711A 2 mtr multimode \$300; and TM-201A 2mtr FM \$200. Or best offers.

AEA PK232MBX packet controller \$275; AEA PK88 packet controller \$250; HAL Telereader CWR6850 \$275; and Robot 1200C Slow Scan TV \$250. Or best offers.

Hygain Long John beam antennas in the original boxes: 155 BA-S five element 15 mtr; 105 BA-S five element 10 mtr; 205 BA-S five element 20 mtr; and also the 7-2 Model Discoverer four element 40 mtr. Each at the current list price less 15%.

ARCO photovoltaics panel, 35 watts, 12" x 48", in original factory box. Call Bill for Price.

AARC GENERAL MEETINGS are held on the first Friday evening of each month in Room 102 of the Carr-Gottstein Building on the Alaska Pacific University Campus.

The campus is located at 4101 University Drive and Bragaw Streets. Parking is available only in the lot to the northeast of the building.

The meetings begin at 7:00 PM and visitors are always welcome! The AARC legendary raffle is open to everyone.

AARC BOARD MEETINGS are held on the second Wednesday evening of each month in Room 104 of the Carr-Gottstein Building on the APU campus. The meetings begin at 7:00 PM and are open to all club members and visitors.

ANCHORAGE ARES NET

The Anchorage area Amateur Radio Emergency Services net is held each Thursday evening at 8:00 PM on the KL7ION repeater on 147.3 (+.600). Net Control is Lil Marvin, NL7DL and alternate NCS station is KL7IO. The Westlink Amateur Radio report, Swap N Shop and the Parka Net follow the ARES net on the same frequency.

THE KL7AA REPEATERS

sponsored by the club are on 146.94 (at minus .600), 224.94 (-1.600) and 444.7 (+5.000). The two meter repeater located on top of Flattop Mt. requires a 100 hz tone for access.

The satellite receiver located on Government Hill does not require a tone. The 125 cm repeater, also on Flattop Mt. and the 70 cm repeater located at the South Central Radio site do not require tone for access. The repeater trustee is William Reiter, KL7ITI. Doug Dickinson, KL7IKX, is chairman of the VHF/UHF committee.

KL7AA-7 PACKET OPERATIONS

Ports are 145.01 mhz, 147.96 mhz and 445.05 mhz at 1,200 Baud; 7108.5 khz at 300 Baud and 445.11 mhz at 9600 Baud. Remember that 147.96 mhz is normally in use as the Iceworm link to other Alaskan communities and limit use of that port to evening hours.

A landline port is available at 300-9600 Baud, V32.bis compatible; registration is required. Contact Sysop John Lawson, NL7NC, at 337-2467 for info, or contact alternate Sysops Doug KL7IKX, Paul WL7BF, Jim NL7C, Merle AL7LD or Bill AL7MM.

FREE LICENSE EXAMS are held on the first Wednesday evening of the month at 6:30PM in the Carr-Gottstein Bldg on the APU campus and on the third Wednesday evening of the month in Eagle River at 7PM in the basement of the VFW Hall.

Exams are also held in the Carr-Gottstein Bldg on the 1st Saturday in Odd months and the 2nd Saturday in Even months at 2PM.

For more information contact VEC Director, Roger Hansen, KL7HFQ at 892-6365.

AARC MEMBERSHIP DUES are \$20.00 regular, \$25.00 family and \$10.00 student. Dues are due one year from date of last payment. There is a 30 day grace period. Life memberships are available. Contact Lance Dunbar, AL7BK, (H) 337-6297 or (W) 561-5457.

Please remember that the club receives \$2.00 for each ARRL membership renewal and \$5.00 for each new ARRL membership if they are processed through the AARC.

AARC is affiliated with the ARRL.

ANCHORAGE AMATEUR RADIO CLUB, INC. PO BOX 101987 - ANCHORAGE, AK 99510-1987

NAME _____ CALL SIGN _____

ADDRESS _____ LICENSE CLASS _____

CITY _____ STATE _____ ZIP CODE _____ LICENSE EXPIRATION DATE _____

PHONE: HOME _____ BUSINESS _____ ARRL MEMBER? YES ___ NO ___ LIFE ___

YOUR STATION CAPABILITIES: HF _____ VHF _____ UHF _____ MOBILE HF _____ MOBILE VHF _____ MOBILE UHF _____

AMSAT/OSCAR _____ RTTY _____ PACKET _____ OTHER _____

Do you have other special interest in Amateur Radio? _____ MICROPROCESSOR/DIGITAL _____

TRANSMITTER HUNTS _____ FIELD DAY _____ FLEA MARKET _____

OTHER INTERESTS _____

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818 LAKE

KL7HFQ
AK 99652

Potter Marsh/Seward Highway Cleanup 8AM May 8th

NOTICE NOTICE

44th Anniversary of the
Annual Armed Forces Day
Communications Celebration
will be May 15th.

For more information, see the
handouts at the May 7th
meeting or call Harvey
Rookus at 333-4693

TEN TEC ALL AMERICAN HF GEAR (on display)

KAGOLD FOR KANTRONICS TNC's (In stock now) *

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